E-HOUSE AND PREFABRICATED SUBSTATION SPECIALISTS
COMPANY PROFILE
Global leader in E-House and prefabricated substation solutions with the fastest manufacturing, delivery and installation times in the industry.
THE TGOOD DIFFERENCE

› Over 7000 prefabricated substations produced annually.

› Only focus on prefabricated substation solution globally.

› The fastest manufacturing, delivery and installation time in the field.

› Flexible solutions, designed according to client preferences.
We measure delivery and installation times in weeks, not months.

**FASTER MANUFACTURING**

Many substation solutions ready to depart factory in as little as six weeks.

**FASTER INSTALLATION**

Modular prefabricated substations vastly reduce on-site construction times.

**FASTER CONSTRUCTION**

TGOOD’s professional foundation design makes construction easy and fast.

**FASTER COMMISSIONING**

Rigorous factory testing reduces commissioning times by an average of 50%.
Founded in 2004 by a forward-thinking team of German and Chinese engineers, TGOOD has grown to become the world leader in E-House solution.
HISTORY

2004
▶ TGOOD founded as a Sino-German joint venture.

2009
▶ First company to be listed on the Shenzhen Stock Exchange, Growth Enterprise Board ("The Shenzhen NASDAQ"; 300001:CH).

2011
▶ Strategic partnership formed with Siemens AG to manufacture GIS RMU.
▶ Ranked No. 21 in Forbes China Top 100 Companies with Most Potential 2011.

2013
▶ Joint Venture formed with Tavrida Electric AG, worldwide leader in MV circuit protection.

2014
▶ TGOOD Hong Kong established as hub for globalization.
▶ Market presence established in South America, Australia, and Africa.
▶ German national Dr. Siegfried Ruhland appointed president of TGOOD.

2015
▶ TGOOD entered E-Vehicle charging field.
▶ Market presence established in Middle East, South East Asia, Central Asia.

2016
▶ TGOOD became the biggest E-Vehicle charging solution provider world-wide.
▶ Advanced energy management concepts developed based on new technology.
▶ Presence expanded to Mexico and Chile
▶ TGOOD Germany established as global R&D center.
PREFABRICATED SUBSTATIONS

Prefabricated substations are factory pre-assembled and tested to reduce installation, construction and commissioning times by an average of 50%. TGOOD’s modular high and medium-voltage switchgear such as TGP145, THP145, TGS and TAP17 are pre-manufactured in-house to drastically reduce manufacturing and assembly times. For many applications, overall foundation designs have been proposed by TGOOD, making construction easy and fast.

SWITCHGEAR E-HOUSE

TGOOD’s prefabricated E-House solutions have been installed in the world’s harshest outdoor operating environments. As the world leader in E-House technology, we deliver thousands of units annually to meet the demands of customers and projects around the globe.

TRAILER AND SKID SUBSTATION

For temporary power solutions, emergency substation replacements and industry applications where a movable solution is required, TGOOD trailer and skid substations deliver an instant power solution. Our trailers are designed to meet US DOT and other international transportation standards where required.
Company Profile: E-House and Prefabricated Substation Specialists
MODULAR SUBSTATION

The TGOOD 145kV modular substation is a patented solution, ideal for crowded cities and congested industrial zones. Employing sealed GIS modules up to 145kV, modular substations are safe to touch and provide exceptional protection against vandalism. Attractive, compact designs along with low audible noise and electric field emissions make modular substations an optimal solution for densely populated areas.

HYBRID GAS INSULATED SWITCHGEAR

TGOOD HGIS [Hybrid Gas Insulated Switchgear] technology builds upon high voltage SF6 gas insulated breakers but incorporates air insulated busbar modules for greater affordability. HGIS results in a standalone substation component that is easy to install, has a smaller footprint than the air-insulated equivalent, and costs less than a fully gas insulated system.

GAS INSULATED SWITCHGEAR

TGOOD HV GIS utilizes maintenance-free SF6 gas insulated breakers for an extremely compact and versatile switchgear solution for challenging, space-constrained projects. Our integrated, modular GIS eliminates much of the expense, complexity and cost associated with traditional GIS systems.

METAL-ENCLOSED SWITCHGEAR

Medium voltage metal-enclosed switchgear offers innovative features to ensure safety and durability in a product ideal for space-constrained environments. Reliability and quality control are key, with each circuit breaker module type tested for up to more than 10,000 mechanical operations.

TRANSFORMERS

TGOOD offers a full suite of dry type, oil filled, and amorphous alloy core transformers as part of our prefabricated substation solutions. TGOOD transformers utilize cutting edge technology to reduce losses and eliminate routine maintenance.
Successful history of innovative solutions

- 2004 First railway remote substation
- 2004 First 40.5 kV compact prefabricated substation
- 2006 First offshore platform substation
- 2007 First intelligent railway remote substation
- 2007 First skid substation
- 2008 First 110 kV urban substation
- 2009 First coal dual power supply substation
- 2010 First trailer substation
- 2012 First 145 kV modular substation
- 2013 First PV integrated substation
- 2014 First E-vehicle group charging substation
- 2015 First 40.5kV and 12kV PV pad-mounted substation
- 2016 First 3x3 sections 110kV modular substation
TGOOD’s high-capacity, ISO 9001 certified manufacturing process delivers consistent, high quality solutions with best-in-class lead times.
MANUFACTURING EXCELLENCE

› 500,000 m² production facilities.
› 4000+ employees.
› 7000+ E-House units produced annually.
› Proprietary offer includes E-House, HV GIS, HGIS, transformers, metal-enclosed switchgear, prefabricated substations, RMU, and VCB.
› Holder of over 200 patents on E-House, substation and switchgear offers and production processes.
GLOBAL PROJECT EXAMPLES

We delight our customers with solutions that create more value than they expect.

- **Industry:** Forestry
- **Location:** Chetwynd, BC, Canada
- **Customer:** West Fraser Mills Ltd.
- **Project:** Chetwynd Power Plant
- **Equipment:** 25kV switchgear mounted in a prefabricated E-House, 5kV switchgear
Over the past decade, we have provided prefabricated substations and E-House solutions for projects in some of the world’s most remote locations and inhospitable operating environments. TGGOOD’s project management experience and customer focus ensure that your project is completed on-time and on-budget.

Industry: Transportation  
Location: Turkmenistan  
Customer: Government of Turkmenistan  
Project: Ashkhabad-Turkmenbashi Railway Communication  
Equipment: 43 sets of prefabricated substation

Industry: Mining  
Location: Jeti-Oguz District, Kyrgyzstan  
Customer: Kumtor Gold Company of Canada  
Project: Kyrgyzstan 110kV Prefabricated Substation  
Equipment: 110kV prefabricated substation

Industry: Power Generation  
Location: Mozambique  
Customer: Mozambique Electric Company  
Project: Mozambique Power Generation  
Equipment: 1 set of prefabricated substation

Industry: Oil and Gas  
Location: Myanmar  
Customer: The Government of the Union of Myanmar Ministry of Energy  
Project: Myanmar-China Crude Oil Pipeline (Myanmar Section)  
Equipment: 61 sets of LV switchgear; 5 sets of MV switchgear
GLOBAL PROJECT EXAMPLES

Industry: Oil & Gas
Location: Villavicencio, Meta
Customer: Ecopetrol
Project: Mobile SS 20MVA, 115/34.5/13.8kV
Equipment: 1 set of prefabricated substation with HGIS145, power transformer 20MVA, surge arrester, VTs, C&P panel

Industry: Infrastructure
Location: Iraq
Project: Intake Water Pump Station
Equipment: 132kV Mobile Substation
Delivery: 2015
Industry: Oil & Gas  
Location: From Atyrau in Kazakhstan to Alashankou in China's Xinjiang  
Customer: CNPC and the Kazakh oil company KazMunayGas  
Project: Kazakhstan China Oil Pipeline  
Equipment: 11x10kV prefabricated substations in 2009, 2x12kV prefabricated substations in 2011, 3x12kV prefabricated substations in 2013

Industry: Utility  
Location: Linyi city, Shandong province, China  
Customer: State Grid China Corporate (Linyi)  
Project: State Grid China Corporate (Linyi) 110kV substation  
Equipment: 110 kV 6 x feeders, 2 x incomers, 2 x 50 MVA transformer, 40.5kV 14 x feeders, 12 kV 10 x feeders

Industry: Renewable energy  
Location: South of Anhui province, China  
Customer: Xinyi Solar Co.Ltd  
Project: 20MWp floating solar project  
Equipment: 35kV house, secondary house, earthing & arc suppression house, SVG house.

Industry: Renewable Energy  
Location: Empangan Ulu Sepri, Malaysia  
Customer: Cypark Resources Berhad  
Project: 270kW On-Grid Floating Solar Farm  
Equipment: 1 unit of substation enclosure to house 11 nos of inverters including auxiliary systems

Industry: Industry  
Location: North Adelaide in South Australia  
Customer: Mayne Pharma-Pharmaceuticals Manufacturing facility  
Project: North Adelaide Substation Replacement  
Equipment: 11kV RMU with metering panel
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